

**Patent Number(s): JP55089332-A**

**Title:** Prodn. of polyester having excellent properties - from terephthalic acid and glycol with addn. of phosphorus cpd. and using antimony cpd. catalyst

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**Derwent Primary Accession Number:** 1980-59294C [34]

**Patents Cited by Inventor:** 0

**Citing Patents:** 0

**Articles Cited by Inventor:** 0

**Patents Cited by Examiner:** 0

**Articles Cited by Examiner:** 0

**Abstract:**

In the prepn. of polyester where difunctional carboxylic acids mainly comprising terephthalic acid and glycol are directly esterified followed by polycondensation, the improvement comprises adding a P cpd. of formula (I), pref. (II), (III) or (IV), in an amt. of  $0.2 \times 10^{-4}$  mol- $20 \times 10^{-4}$  mol per mol of the starting acid components to the esterification system and using an Sb cpd. (e.g. trioxide, trichloride or acetate) as catalyst for polycondensation. (Where  $n = 1$  or  $2$ ;  $R'$  is H or hydrocarbon gp.;  $R_2$  is hydrocarbon gp.;  $R_3$  is H or hydrocarbon gp.).

The resulting polyester has excellent heat stability, transparency and hue. When the phosphorus cpd. is added after the completion of esterification, no improvement is obtd. The Sb cpd. is pref. used in an amt. of  $1 \times 10^{-4}$  -  $10 \times 10^{-4}$  mol (as Sb) per mol of the acid components constituting the polyester.

**Drawing:**

**International Patent Classification:** C08G-063/68

**Derwent Class:** A23 (Polyamides, polyesters, polycarbonates, alkyds)

**Derwent Manual Code(s):** A02-A07; A02-A11; A05-E04A

**Patent Details:**

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